**Precalculus**

**Assignment Sheet – Chapter 5**

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| **Date** | **Objectives** | **Textbook Correlation** | **Homework Assignment** |
|  | * Recognize and write the fundamental trig identities. * Use the fundamental trig identities to evaluate trig functions, simplify trig expressions, and rewrite trig expressions. | 5.1 | p.359: 1, 2, 3, 9, 12, 15-26 all, 45-53 odds |
|  | * Recognize and write the fundamental trig identities. * Use the fundamental trig identities to evaluate trig functions, simplify trig expressions, and rewrite trig expressions. | 5.1 | p. 360: 61, 63, 65, 77, 81, 83, 85, 103, 105, 115-120 all |
|  | * Verify trig identities. | 5.2 | p. 367: 3-39 every 3rd one, and 67 |
|  | * Use standard algebraic techniques to solve trig equations. * Solve trig equations of the quadratic type and those involving multiple angles. * Use inverse trig functions to solve trig equations. | 5.3 | p. 376: 1, 5-25 odds, 37, 81 |
|  | **REVIEW AND TEST CHAPTER 5** |  |  |
|  | * Use the Law of Sines to solve oblique triangles (AAS, ASA, or SSA) * Find the areas of oblique triangles. * Use the Law of Sines to model and solve real-life problems. | 6.1 | p. 416: 1, 19, 31, 35 |
|  | * Use the Law of Cosines to solve oblique triangles (SSS or SAS). * Use the Law of Cosines to model and solve real-life problems. * Use Heron’s Area Formula to find the area of a triangle. | 6.2 | p. 423: 1, 13, 23 |
|  | **REVIEW FOR EXAM: CHAPTERS 1-6, 9, AND LIMITS** |  |  |
|  | * Represent vectors as directed line segments. * Write the component forms of vectors. * Perform basic vector operations and represent them graphically. * Wrtie vectors as linear combinations of unit vectors. * Find the direction angles of vectors. * Use vectors to model and solve real-life problems. | 6.3 | p. 436: 1, 3, 7, 19, 27 |
|  | **REVIEW AND TEST CHAPTER 6.1-6.3** |  |  |